



STIC Search Report

EIC 3700

STIC Database Tracking Number: 97970

TO: Linda Sholl
Location: pk1 5d11
Art Unit: 3700
Wednesday, July 02, 2003

Case Serial Number: 09/930572

From: Terry Solomon
Location: EIC 3700
CP2-2C08
Phone: 305-5932

Terrance.solomon@uspto.gov

Search Notes

No litigation found.

www.lexis.com

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6112767

September 5, 2000

Chromatography valve assembly

REISSUE: August 15, 2001 - Reissue Application filed Ex. Gp.: 3753; Re. S.N. 09/930,572 (O.G. December 31, 2002)

APPL-NO: 311520 (00)

FILED-DATE: May 13, 1999

GRANTED-DATE: September 5, 2000

Selected file: PLUSPAT

**** SS 1: Results 1**

1 / 1 PLUSPAT - @QUESTEL-ORBIT
PN - US6112767 A 20000905 [US6112767]
TI - (A) Chromatography valve assembly
PA - (A) ITT (US)
PAO - ITT Industries, Inc., White Plains NY [US]
IN - (A) PINKHAM LOUIS V (US)
AP - US31152099 19990513 [1999US-0311520]
FD - Cont. of US715286 19960916 [1996US-0715286]
Continuation of: US5906223
PR - US31152099 19990513 [1999US-0311520]
US71528696 19960916 [1996US-0715286]
IC - (A) F16K-011/20
EC - F16K-011/22
F16K-027/00B
IDT - 123US
PCL - ORIGINAL (O) : 137597000; CROSS-REFERENCE (X) : 137599110
DT - Basic
CT - US2209024; US2865402; US4655095; US5906223
STG - (A) United States patent
AB - A unitarily formed diverter valve assembly for use in liquid chromatography. The valve assembly comprises a plurality of inlet and outlet ports, diverter valve systems, chambers, and a tortuous network of passageways all of which are arranged to accommodate the flow of fluids in a liquid chromatography system. The valve assembly is configured so as to direct the flow of fluid coming from an inlet port through the valve body where it can then be reversibly directed into or out of a chromatography column. On returning from the column, the fluid reenters the valve assembly where it is directed to an outlet port in order to exit the system. The valve assembly can also be configured so as to bypass the column altogether. Since the entire valve assembly is machined out of a single block of material having smooth liquid passageways, and since all flow compartments are shared and fully flushed when a flow-through valve is opened, dead-legs are virtually eliminated from the system.
UP - 2000-35

1 / 1 LGST - @LEGSTAT
PN - US 6112767 [US6112767]
AP - US 311520/99 19990513 [1999US-0311520]
DT - US-P
ACT - 19990513 US/AE-A
APPLICATION DATA (PATENT)
US 311520/99 19990513 [1999US-0311520]

20000905 US/A
PATENT

20021231 US/RF
REISSUE APPLICATION FILED
20010815
UP - 2003-04

1 / 1 CRXX - @CLAIMS/RRX
PN - 6,112,767 A 20000905 [US6112767]

PA - ITT Industries Inc
ACT - 20010815 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20021231
REISSUE REQUEST NUMBER: 09/930572
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3753

Reissue Patent Number:

Selected file: INPADO

**** SS 1: Results 7**

1 / 7 INPADO - @INPADO

PN - AU 687715 B1 19980226 [AU-687715]
TI - CHROMATOGRAPHY VALVE ASSEMBLY
IN - PINKHAM LOUIS V
PA - ITT
AP - AU 37573/97-A 19970915 [1997AU-0037573]
PR - US 715286/96-A 19960916 [1996US-0715286]
IC - F16K-011/20; F16K-017/20

2 / 7 INPADO - @INPADO

PN - BR 9703655 A 19981110 [BR9703655]
TI - CONJUNTO DE VALVULAS DE CROMATOGRAFIA
IN - PINKHAM LOUIS V
PA - ITT [US]
AP - BR 9703655/97-A 19970729 [1997BR-0003655]
PR - US 715286/96-A 19960916 [1996US-0715286]
IC - F16K-011/00

1 / 1 LEGALI - @LEGSTAT

PN - BR 9703655 [BR9703655]
DT - BR-P
ACTE- 20011127 BR/FF [+] INTENTION TO GRANT
20020416 BR/FG9A [+] PATENT OR CERTIFICATE OF ADDITION GRANTED
UP - 2002-19

3 / 7 INPADO - @INPADO

PN - CA 2215554 C 20020205 [CA2215554]
TI - CHROMATOGRAPHY VALVE ASSEMBLY
LA - ENG
IN - PINKHAM LOUIS V [US]
PA - ITT [US]
AP - CA 2215554/97-A 19970915 [1997CA-2215554]
PR - US 715286/96-A 19960916 [1996US-0715286]
IC - G01N-030/02; F16K-011/22; G01N-030/44

4 / 7 INPADO - @INPADO

PN - CA 2215554 AA 19980316 [CA2215554]

TI - CHROMATOGRAPHY VALVE ASSEMBLY
 LA - ENG
 IN - PINKHAM LOUIS V [US]
 PA - ITT [US]
 AP - CA 2215554/97-A 19970915 [1997CA-2215554]
 PR - US 715286/96-A 19960916 [1996US-0715286]
 IC - G01N-030/02; F16K-011/22; G01N-030/44

5 / 7 INPADOC - @INPADOC
 PN - EP 829716 A1 19980318 [EP-829716]
 TI - CHROMATOGRAPHY VALVE ASSEMBLY
 LA - ENG
 IN - PINKHAM LOUIS V [US]
 PA - ITT MFG ENTERPRISES INC [US]
 AP - EP 97850114/97-A 19970715 [1997EP-0850114]
 PR - US 715286/96-A 19960916 [1996US-0715286]
 IC - G01N-030/20; F16K-011/22; F16K-027/00
 DS - AT* BE* CH* DE* DK* ES* FR* GB* IE* IT* LI* NL* SE*

1 / 1 LEGALI - @LEGSTAT
 PN - EP 829716 [EP-829716]
 AP - EP 97850114/97 19970715 [1997EP-0850114]
 DT - EP-P
 ACTE- 19970715 EP/AE-A
 EP-APPLICATION
 EP 97850114/97 19970715 [1997EP-0850114]

19980318 EP/AK-A1 [+]
 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH
 REPORT:
 AT BE CH DE DK ES FR GB IE IT LI NL SE

19980318 EP/A1 [+]
 PUBLICATION OF APPLICATION WITH SEARCH REPORT

19980624 EP/17P [+]
 REQUEST FOR EXAMINATION FILED
 980416

19981202 EP/AKX [+]
 PAYMENT OF DESIGNATION FEES
 AT BE CH DE DK ES FR GB IE IT LI NL SE

19981202 EP/RBV [+]
 DESIGNATED CONTRACTING STATES (CORRECTION):
 AT BE CH DE DK ES FR GB IE IT LI NL SE

20010829 EP/17Q [+]
 FIRST EXAMINATION REPORT
 20010716

UP - 2001-35

6 / 7 INPADOC - @INPADOC
 PN - US 6112767 A 20000905 [US6112767]
 TI - CHROMATOGRAPHY VALVE ASSEMBLY
 IN - PINKHAM LOUIS V [US]
 PA - ITT [US]

AP - US 311520/99-A 19990513 [1999US-0311520]
PR - US 311520/99-A 19990513 [1999US-0311520]
US 715286/96-A1 19960916 [1996US-0715286]
IC - F16K-011/20

1 / 1 LEGALI - @LEGSTAT
PN - US 6112767 [US6112767]
AP - US 311520/99 19990513 [1999US-0311520]
DT - US-P
ACTE- 19990513 US/AE-A
APPLICATION DATA (PATENT)
US 311520/99 19990513 [1999US-0311520]

20000905 US/A
PATENT

20021231 US/RF
REISSUE APPLICATION FILED
20010815

UP - 2003-04

7 / 7 INPADOC - @INPADOC
PN - US 5906223 A 19990525 [US5906223]
TI - CHROMATOGRAPHY VALVE ASSEMBLY
IN - PINKHAM LOUIS V [US]
PA - ITT [US]
AP - US 715286/96-A 19960916 [1996US-0715286]
PR - US 715286/96-A 19960916 [1996US-0715286]
IC - F16K-011/20

1 / 1 LEGALI - @LEGSTAT
PN - US 5906223 [US5906223]
AP - US 715286/96 19960916 [1996US-0715286]
DT - US-P
ACTE- 19960916 US/AE-A
APPLICATION DATA (PATENT)
US 715286/96 19960916 [1996US-0715286]

19960916 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
ITT INDUSTRIES, INC. 4 WST OAK LANE WHITE PLAINS, NEW YORK 10604 *
PINKHAM, L. : 19960910

19990525 US/A
PATENT

20011023 US/RF
REISSUE APPLICATION FILED
20010815

UP - 2001-44

Session finished: 02 JUL 2003 Time 19:02:22